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(11) **EP 1 045 521 A3**

(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:  
**02.01.2003 Bulletin 2003/01**

(51) Int Cl.7: **H03M 13/00, H03M 13/27,  
H03M 13/29**

(43) Date of publication A2:  
**18.10.2000 Bulletin 2000/42**

(21) Application number: **00303056.6**

(22) Date of filing: **11.04.2000**

(84) Designated Contracting States:  
**AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU  
MC NL PT SE**  
Designated Extension States:  
**AL LT LV MK RO SI**

• **Leretaille, Catherine (formerly Gauthier)**  
**75015 Paris (FR)**  
• **Gosne, Stephane**  
**92310 Issy Les Moulineaux (FR)**

(30) Priority: **13.04.1999 CA 2268853**

(71) Applicant: **Nortel Networks Limited**  
**Montreal, Quebec H2Y 3Y4 (CA)**

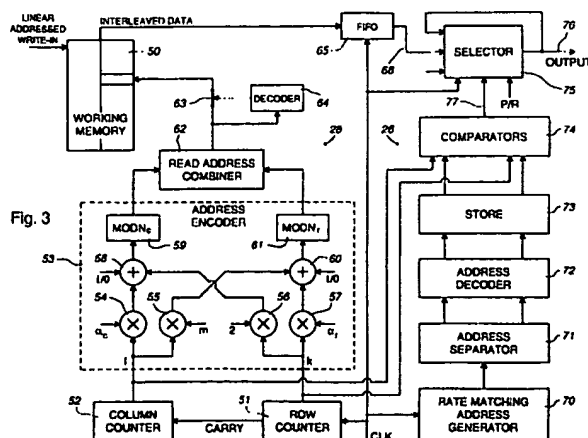
(74) Representative: **Free, Rachel Alder et al**  
**Sommerville & Rushton,**  
**Business Link Building,**  
**45 Grosvenor Road**  
**St. Albans, Hertfordshire AL1 3AW (GB)**

(72) Inventors:  
• **Tong, Wen**  
**Ottawa Ontario K2C 3L7 (CA)**

(54) **Rate matching and channel interleaving for a communications system**

(57) A method of and apparatus for matching a rate of data bits, in a matrix of data bits interleaved by a pre-determined interleaving process (50, 53, 62), to a desired rate by deletion of redundant data bits or repetition of data bits derived from the matrix, includes steps of determining (70) in a non-interleaved matrix of the data bits a pattern of bits to be deleted or repeated to provide the desired data rate, decoding (72) an address of each bit in said pattern in a manner inverse to the interleaving process to produce a respective address of the bit in the matrix of interleaved data bits, and deleting or repeating

(76) the respective bit in the interleaved data bits in dependence upon the respective address. The address decoding is performed in the same manner as a coding (53) of addresses for producing the interleaved data bits from the non-interleaved matrix of the data bits. Also disclosed is an advantageous interleaving process for channel interleaving in a 3rd generation CDMA wireless communications system, a shuffling method for a second stage of interleaving in such a system, and how the rate matching can be conveniently applied to turbo-coded data coded.





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# EUROPEAN SEARCH REPORT

Application Number  
EP 00 30 3056

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The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
THE HAGUE		1 November 2002	Devergranne, C
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons &amp; : member of the same patent family, corresponding document</p>			

**ANNEX TO THE EUROPEAN SEARCH REPORT  
ON EUROPEAN PATENT APPLICATION NO.**

EP 00 30 3056

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